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DaimlerChrysler AG

Patent claims

- 5 1. A method for controlling a drive (16) of a motor vehicle having an internal combustion engine (10) and an electric motor (24), a main transmission having an output shaft (18),which connected to a driveshaft (19)of the motor 10 vehicle, and input shaft (14), which an connected to the internal combustion engine (10), and the electric motor (24) being coupled to the input shaft (14) or the output shaft (18) of the main transmission (16) by means of an intermediate 15 transmission (22) having at least two transmission ratio steps, characterized in that, to accelerate the motor vehicle from rest, the drive is initially effected solely by 20 electric motor (24), the intermediate transmission (22) being in its lowest transmission ratio step, and the provision of drive then being taken over by the internal combustion engine (10) before a shift operation in the intermediate 25 transmission (22).
- 2. The method as claimed in claim 1, characterized in that the intermediate transmission (22) is a claw shift transmission.
- 3. The method as claimed in Claim 1 or 2, characterized in that the provision of drive is taken over gradually by the internal combustion engine (10) before a shift operation in the intermediate transmission (22), the drive torque supplied by

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the internal combustion engine (10) being increased to the same extent as the drive torque supplied by the electric motor (24) is reduced.

- 5 4. The method as claimed in one of claims 1 to 3, characterized in that the provision of drive is taken over by the internal combustion engine (10) as a function of a detectable acceleration demand of the motor vehicle.
- 5. The method as claimed in claim 4, characterized in that the acceleration demand of the motor vehicle can be detected from the accelerator pedal position and/or from the vehicle speed.

The method as claimed in one of claims 1 to 5,

- characterized
 in that an energy store which is connected to the electric motor (24) is intermediately discharged, the electric motor (24) is operated in a regenerative mode, the electric motor (24) is operated in a booster mode and the like only in at least the second transmission ratio step of the intermediate transmission (22).
 - 7. The method as claimed in one of Claims 1 to 6, characterized
- in that, if appropriate, the motor vehicle can also be accelerated from rest solely by the internal combustion engine (10) as drive.